

20010406.ba v03_n139.bam.20010406

>From ???@??? Fri Apr 6 12:22:00 2001 -0500
Message-Id: <200104061721.f36HLc4t021830@sco.theporch.com>
Date: Fri, 6 Apr 2001 12:21:05 CDT
From: Old Tube Radios <boatanchors@theporch.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: BOATANCHORS digest 3139

BOATANCHORS Digest 3139

Topics covered in this issue include:

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by William Donzelli <aw288@osfn.org>
- 2) Re: crystal-derived selectivity
by Steve Berg <z931086@corn.cso.niu.edu>
- 3) re: Dynamotor IDs?
by "ROBERT W. DOWNS" <RWDowns_WA5CAB@compuserve.com>
- 4) Re: crystal-derived selectivity
by Arden Allen <gumbear@pacbell.net>
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by W5USM@aol.com
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by Morris Odell <Morris0@vifp.monash.edu.au>
- 8) Re: P&H Spitfire Cosmic Ether Burner
by jim lockwood <jmlckwd@mindspring.com>
- 9) Aircraft Radio Restoration
by Jerry Proc <jproc@idirect.com>
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by "Bob Duckworth" <wb4mnf@atl.org>
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by "russ dworakowski" <wb3fau@hotmail.com>
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- 16) Explosive devices, etc., revisited.
by "Herbert M. Rosenthal" <herbrose@lobo.net>
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by William Donzelli <aw288@osfn.org>
- 18) website

by Morris Odell <Morris0@vifp.monash.edu.au>
19) tuning troubles
by Gordon White <gewhite@crosslink.net>
20) ID This Headset??
by Merz Donald S <merz.ds@mellon.com>
21) RE: ID This Headset??
by Meir Ben-Dror <mbendror@optonline.net>

Date: Wed, 4 Apr 2001 12:00:16 -0400 (EDT)
From: William Donzelli <aw288@osfn.org>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: MRCG meet - going that way?
Message-ID: <Pine.SUN.3.91-FP.1010404115509.3196M-1000000@osfn.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I am trying to scrape together another trip to the military meet at SLO this year (4 thru 6 May, I think). I will very likely be coming into the Bay Area, and may be catching a ride down with the same person I did last year, but so far that is unconfirmed.

As a backup, will anyone on the list be going to SLO from the Bay Area that could be persuaded to take a passenger back and forth?

William Donzelli
aw288@osfn.org

Message-ID: <3ACB5B55.78006516@corn.cso.niu.edu>
Date: Wed, 04 Apr 2001 12:35:17 -0500
From: Steve Berg <z931086@corn.cso.niu.edu>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
CC: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: crystal-derived selectivity
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

The James Knight factory is still here in southern DeKalb County Illinois. One of my former colleagues worked there and told me a bit about their process for making crystals. They used a lapping process, and would lap a number of crystals at once. The crystals would be oscillating due to the stresses involved, and the technicians would listen to the carriers on a nearby receiver to watch them come into the proper frequency range. Pretty slick idea.

Steve WA9JML

Date: Wed, 4 Apr 2001 14:06:37 -0500
From: "ROBERT W. DOWNS" <RWDowns_WA5CAB@compuserve.com>
Subject: re: Dynamotor IDs?
To: Old Tube Radios <boatanchors@theporch.com>
Message-ID: <200104041306_MC2-CB55-2505@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain;
charset=ISO-8859-1
Content-Disposition: inline

Art,

The DM-24 was used in the BC-224-(*) (14 volt version of the BC-348 [technically the BC-348 was the 28 volt version of the BC-224, since the 224 came first, but "everyone" knows the BC-348]). The DM-36-(*) was the=

24 volt dynamotor used in the BC-603 and BC-683 VHF FM receivers, and in the BC-605 Interphone Amplifier.

>I have two dynamotors: DM-24 and DM-36-D. What were they used for?

>Art

73,
Robert Downs
<RWDowns_WA5CAB@compuserve.com>
Houston

Date: Wed, 04 Apr 2001 14:02:21 -0700
From: Arden Allen <gumbear@pacbell.net>
Subject: Re: crystal-derived selectivity
To: Old Tube Radios <boatanchors@theporch.com>
Message-id: <0GBA00A5XD40TK@mta6.snfc21.pbi.net>
MIME-version: 1.0
Content-type: text/plain; charset=ISO-8859-1
Content-transfer-encoding: 7bit

Quartizens;

>They used a lapping process,
> and would lap a number of crystals at once. The crystals would be
> oscillating due to the stresses involved, and the technicians would
> listen to the carriers on a nearby receiver to watch them come into the
> proper frequency range. Pretty slick idea.

What a brilliant idea! How did you listen to more than one at a time? Or could you "connect" to each on crystal being ground. Was the oscillation series or parallel mode? Gotta grind to the correct frequency. Perhaps they were zero-beated....ded with a frequency standard or frequency meter.

Seems if the grinder was "activated" as part of a series resonant mode driver circuit the capacitance of the grinding jig would not be relevant. This subject intreagues me because I have been collecting FT-243 cantidates for such maltreatments.

Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net

Message-ID: <3ACB90BD.26CAE99D@crosslink.net>
Date: Wed, 04 Apr 2001 16:23:09 -0500
From: Gordon White <gewwhite@crosslink.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: stuff to sell
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I just put some AN/ARC-5 and GF/RU stuff on eBay:

1131171013

1131164498

1131180767

1131189612

- Gordon White

From: W5USM@aol.com
Message-ID: <63.142aa186.27fcecc7@aol.com>
Date: Wed, 4 Apr 2001 17:31:51 EDT
Subject: Sell very nice ...
To: Old Tube Radios <boatanchors@theporch.com>
MIME-Version: 1.0
Content-Type: multipart/alternative;
boundary="part1_63.142aa186.27fcecc7_boundary"
Content-Disposition: Inline

--part1_63.142aa186.27fcecc7_boundary
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

working and cosmetic Hallicrafters S-85 receiver with manual shipped prepaid
CONUS \$125.

73 from Bill Smith, W5USM
"Shortwave Since 1950"

--part1_63.142aa186.27fcecc7_boundary
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

```
* * * * *
*      ---REMAINDER OF MESSAGE TRUNCATED---      *
*      This post contains a forbidden message format      *
*      (such as an attached file, a v-card, HTML formatting) *
*      Mail Lists at theporch.com only accept PLAIN TEXT      *
*      If your postings display this message your mail program *
*      is not set to send PLAIN TEXT ONLY and needs adjusting *
* * * * *
```

--part1_63.142aa186.27fcecc7_boundary--

Message-ID:
<07A064EA6042D4118A62009027F70E77051824@nt_exchange.vifp.monash.edu.au>
From: Morris Odell <MorrisO@vifp.monash.edu.au>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: RE: crystal-derived selectivity
Date: Thu, 5 Apr 2001 07:56:11 +1000
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

> > The crystals would be
> > oscillating due to the stresses involved, and the technicians would
> > listen to the carriers
>
> What a brilliant idea! How did you listen to more than one
> at a time?

Somewhere in my "wit & wisdom of boatanchors" collection is a post from a

few years ago on this subject. Apparently all you have to do is to put a metal sheet under the glass you are using for the lapping base and connect it to the antenna of a CW receiver. You can then hear the crystal oscillating.

I would imagine multiple crystals would require multiple receivers although they wouldn't have to be very complex rigs. A simple direct conversion device would do it.

73,

Morris

Message-Id: <3.0.32.20010404180012.0075fb44@pop.mindspring.com>
Date: Wed, 04 Apr 2001 18:03:20 -0700
To: Old Tube Radios <boatanchors@theporch.com>
From: jim lockwood <jmlckwd@mindspring.com>
Subject: Re: P&H Spitfire Cosmic Ether Burner
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 10:54 PM 03/31/2001 -0500, thompson@mindspring.com wrote:

> Unlike the
>Linears (Jim K4CCF has my old Spitfire 500M...no its not a CB amp but a nice
>500W input amp with a string of 12V sweep tubes)

Still have it, Dave, and it just purrs along.

Imagine, Gang, a mobile amplifier a little wider than the old Heath model, but about as tall, 6 sweep tubes on their sides, and housed in a chrome plated cabinet. All this and a name like P & H LA-500M Spitfire (in highly stylized type terminating in a lightning bolt), and that's what we are talking about here.

Although the name and styling sure suggest a CB amplifier, it's not. *Very* ruggedly built, and solidly designed, it's a real amateur amplifier that works well on all bands.

OK, back to VF0matics.....

73,

Jim - k4ccf

Message-ID: <3ACBD991.A94D8F6D@idirect.com>
Date: Wed, 04 Apr 2001 22:33:53 -0400

From: Jerry Proc <jproc@idirect.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
CC: daggwoods@aol.com
Subject: Aircraft Radio Restoration
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hello Group,

I've just received this e-mail so I'm forwarding it to the group in case anyone can provide assistance.

If you can, please contact James Dagg <daggwoods@aol.com> and *not* me.

[Start of Forwarded Content]

Subject: B-24 Radios
Date: Wed, 04 Apr 2001 07:07:52 -0500
From: James Dagg <daggwoods@aol.com>
Reply-To: 8828@mta5.rcsntx.swbell.net, Glen@mta5.rcsntx.swbell.net,
Lane@mta5.rcsntx.swbell.net,
Tulsa@mta5.rcsntx.swbell.net, 74131@mta5.rcsntx.swbell.net
Organization: CAF

Dear Sir,

I am at present working on the LB-30/B-24A Diamond Lil owned by the soon

to be late Confederate Air Force. The airplane is currently at Tulsa Technology Riverside airport, Tulsa Ok., for a heavy "C" check which is being performed by members of the Spirit of Tulsa Squadron CAF and volunteers from American Airlines, Tulsa Technology and other businesses

in the local area. As work has progressed these past three months, talk

has turned toward the possibility of approaching the Midland squadron for permission to do a return to bomber configuration of Lil. As you may know, Lil was destined for the British military when an accident caused her to be returned to the factory where the bombays were removed

along with major internal changes, including the removal of her radio room. What my group proposes to do is to gradually, over several winters, restore as much of the equipment and fittings which made it a military aircraft, rather than just a big hollow tube, the way she is now. On our list of would like to do items is of course the radio room. The original floor of the radio room is actually still in the airplane, although it has been raised about four and a half feet. above its original location. We would like to find as much original equipment

as possible ranging from radios to interphones in order to make the restoration complete. Would you or someone you know have any such equipment, especially that they might like to donate, (we are a not for profit organization and can provide tax deductible statements for donations) to this effort. Nothing is being collected or assembled at present , only information and data, as we must make our case to the Midland squadron. Any information or assistance that you could provide would be greatly appreciated. You can contact me a daggwoods@aol.com or at my work e-mail of Jim.Dagg@qmail.jenksusa.k12.ok.us

Thank you for your time. James Dagg, Spirit of Tulsa Squadron CAF,
Stewart Giesic, Commanding

[End of Forwarded Content]

--

Jerry Proc VE3FAB
e-mail:jproc@idirect.com
<http://webhome.idirect.com/~jproc/ve3fab>
HMCS HAIDA Historic Naval Ship. Toronto, Ontario

Message-Id: <200104051244.IAA21125@hat-trick>
From: "Bob Duckworth" <wb4mnf@atl.org>
To: Old Tube Radios <boatanchors@theporch.com>
Cc: "Old Tube Radios" <boatanchors@theporch.com>
Subject: Re: Explosive Devices on Radios
Date: Thu, 5 Apr 2001 08:47:13 -0400

Hey, I have one of these. Big Long Red wire attached. Where does it go?
-bob

| From: Arthur I. Larky <ail0@lehigh.edu>
| To: Old Tube Radios <boatanchors@theporch.com>
| Cc: Old Tube Radios <boatanchors@theporch.com>
| Subject: Re: Explosive Devices on Radios
| Date: Tuesday, April 03, 2001 10:04 PM
|

| The IFF unit that was available after WW2 had explosive squibs in it.
| Supposedly, some were sold with the squibs installed. Made a mess when
| some poor slob thought the trigger lead was a power lead!

| Art

| "Jay H. Miller" wrote:

| > With the current "mess" with the P-3 in China, I wonder if anyone has
| > actually seen a military radio fitted with explosive charges. I've
| > read in several military manuals (including Collins) specific

| > instructions for destroying equipment in such an event but wonder if
| > you just chucked a grenade inside the KWM-2 or was it more
|

From: "russ dworakowski" <wb3fau@hotmail.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: crystal-derived selectivity
Date: Thu, 05 Apr 2001 10:36:12 -0400
Mime-Version: 1.0
Content-Type: text/plain; format=flowed
Message-ID: <LAW2-F98YtJqg7bTmky00000ad4@hotmail.com>

Ok Steve, this is hand made stuff. If you think about it, would you want to do that all day as an employee of James Knights? I would not. It would drive me nuts. That is why Blileys etching process is so much better- it can be automated and you get a more consistant product.

>From: Steve Berg <z931086@corn.cso.niu.edu>
>Reply-To: z931086@corn.cso.niu.edu
>To: Old Tube Radios <boatanchors@theporch.com>
>CC: Old Tube Radios <boatanchors@theporch.com>
>Subject: Re: crystal-derived selectivity
>Date: Wed, 04 Apr 2001 12:35:17 -0500

>
>The James Knight factory is still here in southern DeKalb County
>Illinois. One of my former colleagues worked there and told me a bit
>about their process for making crystals. They used a lapping process,
>and would lap a number of crystals at once. The crystals would be
>oscillating due to the stresses involved, and the technicians would
>listen to the carriers on a nearby receiver to watch them come into the
>proper frequency range. Pretty slick idea.

>
>Steve WA9JML
>

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From: "russ dworakowski" <wb3fau@hotmail.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: crystal-derived selectivity
Date: Thu, 05 Apr 2001 10:44:43 -0400
Mime-Version: 1.0
Content-Type: text/plain; format=flowed
Message-ID: <LAW2-F35vqgStMVhEUs00000472@hotmail.com>

This process involved testing one at a time. A very slow process.

>From: Arden Allen <gumbear@pacbell.net>
>Reply-To: gumbear@pacbell.net
>To: Old Tube Radios <boatanchors@theporch.com>
>Subject: Re: crystal-derived selectivity
>Date: Wed, 04 Apr 2001 14:02:21 -0700
>
>Quartzens;
>
> >They used a lapping process,
> > and would lap a number of crystals at once. The crystals would be
> > oscillating due to the stresses involved, and the technicians would
> > listen to the carriers on a nearby receiver to watch them come into the
> > proper frequency range. Pretty slick idea.
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>What a brilliant idea! How did you listen to more than one at a time? Or
>could you "connect" to each on crystal being ground. Was the oscillation
>series or parallel mode? Gotta grind to the correct frequency. Perhaps
>they were zero-beated....ded with a frequency standard or frequency
>meter.
>
>Seems if the grinder was "activated" as part of a series resonant mode
>driver circuit the capacitance of the grinding jig would not be relevant.
>This subject intrigues me because I have been collecting FT-243 candidates
>for such maltreatments.
>
>
>Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net
>

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Message-ID: <3ACC8AD4.FE41555D@corn.cso.niu.edu>
Date: Thu, 05 Apr 2001 10:10:12 -0500
From: Steve Berg <z931086@corn.cso.niu.edu>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
CC: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: crystal-derived selectivity
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I will have to ask my friend, but the impression I got was that they

lapped a fair number of crystals at the same time. Most of my novice crystals were from Knights. Sadly, when I called down there some years ago to see if they still made custom crystals, the sales rep did not know what I was talking about. I guess they just make time base units now. I have been buying from International Crystals ever since.

Steve

From: "russ dworakowski" <wb3fau@hotmail.com>
To: Old Tube Radios <boatanchors@theporch.com>
Cc: boatanchors@theporch.com
Subject: Re: crystal-derived selectivity
Date: Thu, 05 Apr 2001 13:13:15 -0400
Mime-Version: 1.0
Content-Type: text/plain; format=flowed
Message-ID: <LAW2-F11yIUYNQ85axm000012a4@hotmail.com>

Yes Steve, same stuff made here in Erie at Blileys. Also tied in with the old Erie Resistor Corp. This was bought out. No longer operates here, now known as Murata Erie. Yes they could lap several at the same time, but this never beat the etching method as for how quick and easily you could put a slab on the nose. Russ

>From: Steve Berg <z931086@corn.cso.niu.edu>
>To: wb3fau@hotmail.com
>CC: Old Tube Radios <boatanchors@theporch.com>
>Subject: Re: crystal-derived selectivity
>Date: Thu, 05 Apr 2001 10:10:12 -0500

>

>I will have to ask my friend, but the impression I got was that they
>lapped a fair number of crystals at the same time. Most of my novice
>crystals were from Knights. Sadly, when I called down there some years
>ago to see if they still made custom crystals, the sales rep did not
>know what I was talking about. I guess they just make time base units
>now. I have been buying from International Crystals ever since.

>

>Steve

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From: "russ dworakowski" <wb3fau@hotmail.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: WTB: R8A or R8B
Date: Thu, 05 Apr 2001 14:04:01 -0400

Mime-Version: 1.0
Content-Type: text/plain; format=flowed
Message-ID: <LAW2-F107dnHM3S0lbp0000018b@hotmail.com>

Subject heading sez almost all. For those who do not know- these are Drake receivers. If you care to sell yours for less than factory price- please email me. wb3fau@hotmail.com Russ

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Message-ID: <3ACCF3D1.56A99F6D@lobo.net>
Date: Thu, 05 Apr 2001 16:38:32 -0600
From: "Herbert M. Rosenthal" <herbrose@lobo.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Explosive devices, etc., revisited.
Content-Type: text/plain; charset=us-ascii; x-mac-type="54455854"; x-mac-creator="4D4F5353"
Content-Transfer-Encoding: 7bit

One of the units to have a thermite squib was the BC-645. This was a an airborne IFF that used a WE-316A doorknob tube in a long-line oscillator at 470-495 mc. A solenoid operated a shorting bar across the tuner lines to change frequency.... and the receiver input/mixer was a 955 with another 955 acorn as the rx lo. The whole mess was built on a cast magnesium chassis, and the squib plugged into a huge phone jack-like opening on the chassis. One very red wire stuck out of the squib. Tube compliment included a bunch of loktals. Louvered aluminum cover and nice shocks. Black, of course.

Some of these were made in Syracuse, my home town, and after the war they appeared on the GE junk pile there, by the thousands... \$2 a pound for anything on the pile. I remember several of us built 2M regen transceivers on these chassis-scratchy regen control, and the thing drifted like hell because that little 955 plate got red hot on TX. Think we eventually changed to 6C4 or some other small triode and kept the transmit time to 15 seconds to reduce drifting. You could hear when anyone in town was also listening. Finally put an rf preamp on it and that problem went away.

I do believe CQ had warnings about the squibs, for some were allegedly sold from Radio Row with the squibs intact.

I also heard from one of the GE engineers at the time that they really never were placed into service because they had been comprimised by a spy in the GE plant... urban legend or not, dunno.

Herb Rosenthal W5AN
herbrose@lobo.net

PS Complete schematic of the BC-645 appears in the Surplus Manual I just distributed.

Date: Thu, 5 Apr 2001 19:04:10 -0400 (EDT)
From: William Donzelli <aw288@osfn.org>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Explosive devices, etc., revisited.
Message-ID: <Pine.SUN.3.91-FP.1010405185840.209950-100000@osfn.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

> Louvered aluminum cover and nice
> shocks. Black, of course.

Interesting you say shocks. It has always amazed me how difficult the shockmounts and mounting plates for these things are to get. You will run across ten FT-154s (shockmount for the BC-348) before you get the ABA/SCR-515-A shockmounts. In fact, of my 15 years of looking, I have found just two, both Navy.

> I also heard from one of the GE engineers at the time that they really
> never were placed into service because they had been comprimised by a
> spy in the GE plant... urban legend or not, dunno.

No, they were put into service in the Pacific in very small numbers - I have seen one that went thru "the Drill" (the Navy mutilating the nameplate to destroy contract dates, generally with a drill, chisel, or snips). Mk IV IFF, as it is properly called, died because of political pressures.

William Donzelli
aw288@osfn.org

Message-ID:
<07A064EA6042D4118A62009027F70E77051831@nt_exchange.vifp.monash.edu.au>
From: Morris Odell <MorrisO@vifp.monash.edu.au>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: website
Date: Fri, 6 Apr 2001 10:30:37 +1000
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Anchorites,

One of our Australian radio collectors has established a very nice website with photos of some interesting historic military radios:

<http://www.geocities.com/colbrig/>

I'm told the photo is not really a self portrait!

73, Morris VK3DOC

Message-ID: <3ACDCCBA.7E595C47@crosslink.net>
Date: Fri, 06 Apr 2001 09:03:39 -0500
From: Gordon White <gewwhite@crosslink.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: tuning troubles
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

If you have the RU series Command Set receivers (or even the AN/ARC-5 type) age may make tuning sluggish. A little preventative maintenance may be in order.

I found one of my early RU receivers impossible to tune. The local tuning knob, MC-127, would turn, laboriously, but the dial remained stationary.

This may be corrected neatly with a little careful work and a drill press.

Some minor disassembly showed that the spline on the right side of the tuning shaft (as you face the receiver) was turning on the shaft. On at least models up to RU-5 the spline itself is staked to the shaft rather than pinned. Oddly, the spline on the left side is pinned. The staking had come loose and it was not possible to tune the receiver with the local knob.

Disassembly involved removing the tiny screw that locates the dial. This screw is so-placed that the 5/8" nut in the center of the dial cannot be removed first. Remove both the screw and the nut.

Remove the small screws holding the cover plate under the dial. Under the plate you will see the worm drive shaft. Knock out the pins that retain the male spline on the left and the worm gear in the center. These are slightly smaller than 1/16" and came out reasonably easily.

Using a drift from the left end, with a bit of brass or other soft metal to protect the end of the shaft, drive the shaft out to the right.

There is a sleeve on the shaft between the worm gear and the right side of the dial gear housing. Between the sleeve and the housing are two flat-ground washers and a thrust bearing consisting of small ball bearings retained in a brass washer. There is a similar thrust bearing arrangement on the other side of the housing, under the spline that the knob drives.

The shaft may be driven out to the right and all these small parts gathered up.

Because of aging of the grease this may all be quite gummy and stiff, but the shaft does come out. The gumminess of the grease is the culprit here. Soak and wash the thrust bearings in paint thinner or the like. Re-oil them with a light oil.

Take the shaft with the "loose" spline on it and drill a 1/16" hole through the spline close to the inner end and put a small pin in it. I used a pin out of a junk receiver tuning control, but almost anything will do. This is not watchmaker's work. The spline and the shaft were not hard to drill.

Re-assemble everything on the shaft, replace the pins in the worm gear and the left spline and you should find the tuning capacitor will turn freely again.

If you examine an AN/ARC-5 tuning capacitor (remove the inner shield) you will find an analogous assembly, however the tuning spline in them is an integral part of the shaft (at least on the ones I have seen) so you do not have to pin it. [since it is smaller than the RU spline drilling it would be more of a challenge.]

But - there is a similar thrust bearing and washer arrangement on the inside of the capacitor frame. By this time that is probably pretty gummy, so a little light oil may make the receiver tune more freely. It would be possible to drive out the pin in the worm gear and remove the shaft for cleaning without threatening the receiver. The nut on the back of the shaft is the inner thrust bearing and need not be removed.

These tiny ball thrust bearings are important parts of these receivers!!

- Gordon White

Message-ID: <20010406170110.17871.qmail@mellon.com>

From: Merz Donald S <merz.ds@mellon.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: ID This Headset??
Date: Fri, 6 Apr 2001 12:56:01 -0400
MIME-Version: 1.0
Content-Type: text/plain

Can you identify what this headset was used with?

This appears to be a Military WWII-era headset, though not a common one. It has a single heavy wire for a headband and a khaki canvas strap to go behind the wearer's head. The canvas strap is labeled "B.H.G. 1945" and "YA 5000". The plain black Bakelite earpieces have no cushions. They are marked "PX C-LR". The set has a long brown cloth cord ending in a 1/4" plug. The plug is marked "No. 9 ZA 5624". A metal sleeve at the base of the 1/4" phono plug shaft prevents complete insertion of the plug into a socket.

Does this ring a bell with anyone?

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Date: Fri, 06 Apr 2001 13:30:04 -0400
From: Meir Ben-Dror <mbendror@optonline.net>
Subject: RE: ID This Headset??
To: Old Tube Radios <boatanchors@theporch.com>
Message-id: <002101c0bebf\$379bc400\$0291a8c0@ntwks1.ws19ops.com>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

It's a British headset. Z.A. numbers are military stock numbers and are characteristic of British/Commonwealth equipment.

73, Meir WF2U

-----Original Message-----

From: owner-boatanchors@theporch.com [mailto:owner-boatanchors@theporch.com]
On Behalf Of Merz Donald S
Sent: Friday, April 06, 2001 12:56 PM
To: Old Tube Radios
Subject: ID This Headset??

Can you identify what this headset was used with?

This appears to be a Military WWII-era headset, though not a common one. It has a single heavy wire for a headband and a khaki canvas strap to go behind the wearer's head. The canvas strap is labeled "B.H.G. 1945" and "YA 5000". The plain black Bakelite earpieces have no cushions. They are marked "PX C-LR". The set has a long brown cloth cord ending in a 1/4" plug. The plug is marked "No. 9 ZA 5624". A metal sleeve at the base of the 1/4" phono plug shaft prevents complete insertion of the plug into a socket.

Does this ring a bell with anyone?

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End of BOATANCHORS Digest 3139
